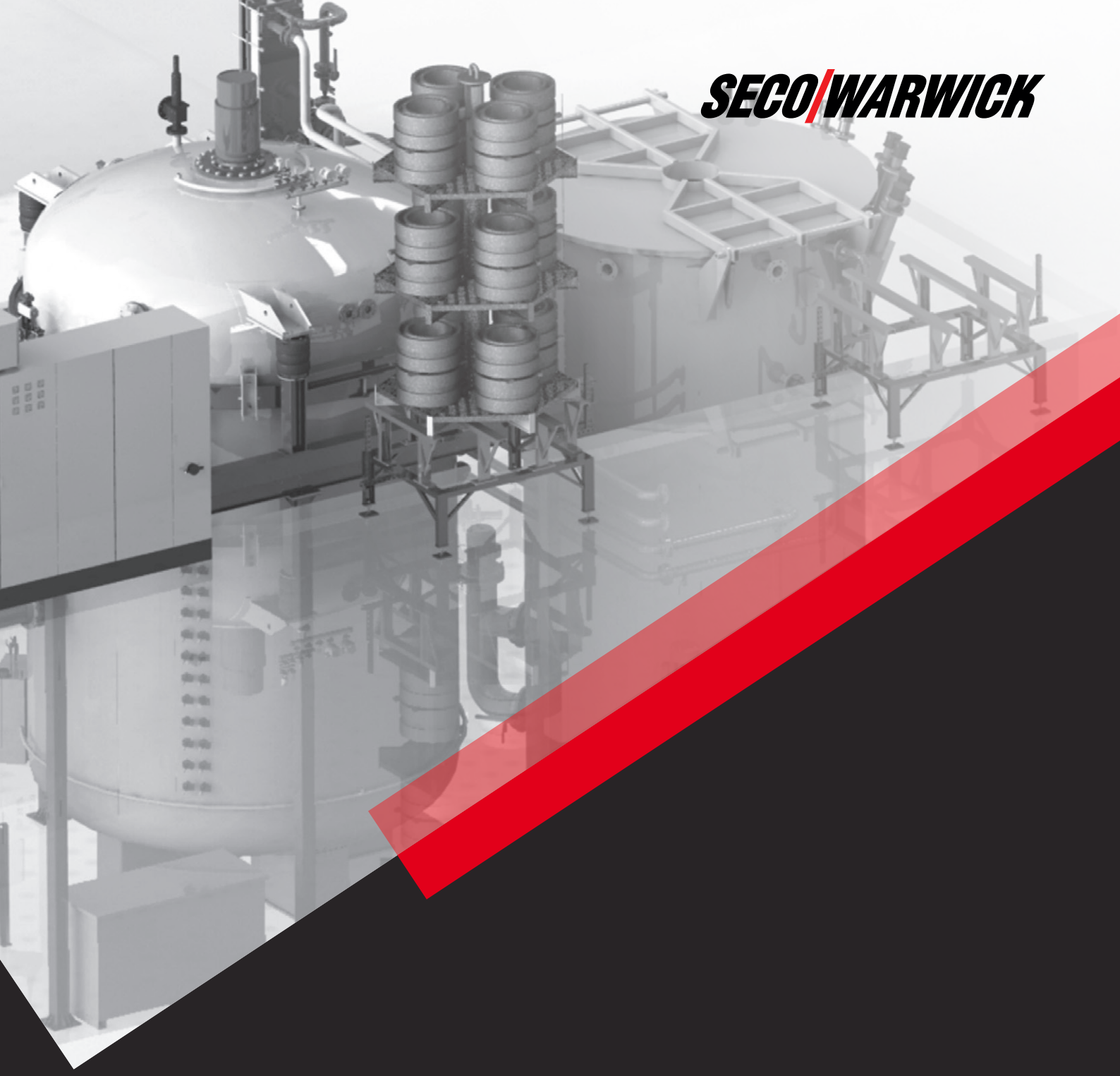

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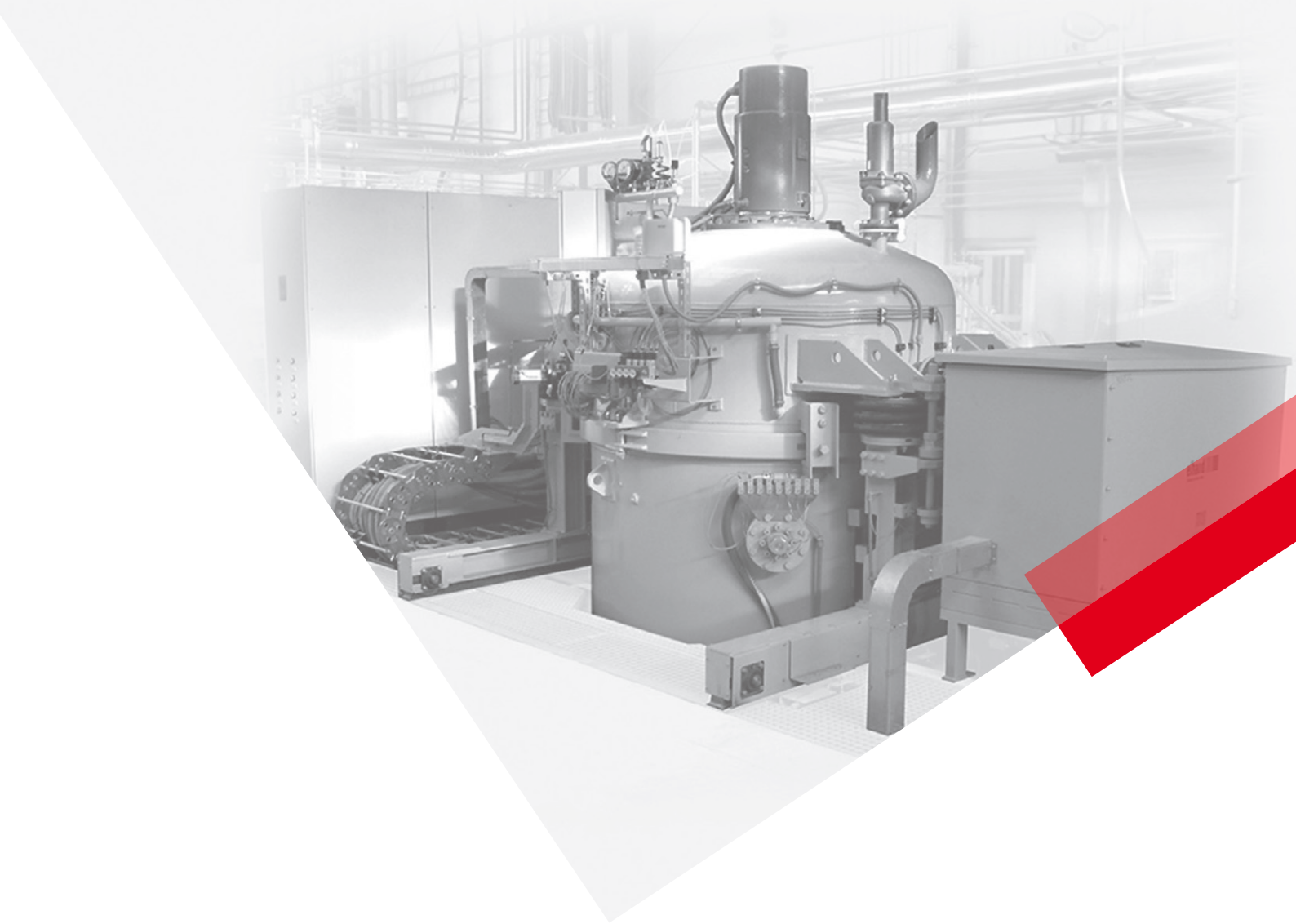
Pit-LPC

Pit-type gas carburizing furnace



Pit-LPC

Modern alternative for atmosphere furnaces – 21st century.
Low Pressure Carburizing (LPC) for thick layers.

INDUSTRIES

- Automotive
- Aerospace
- Power
- Bearings
- Mining
- Tools

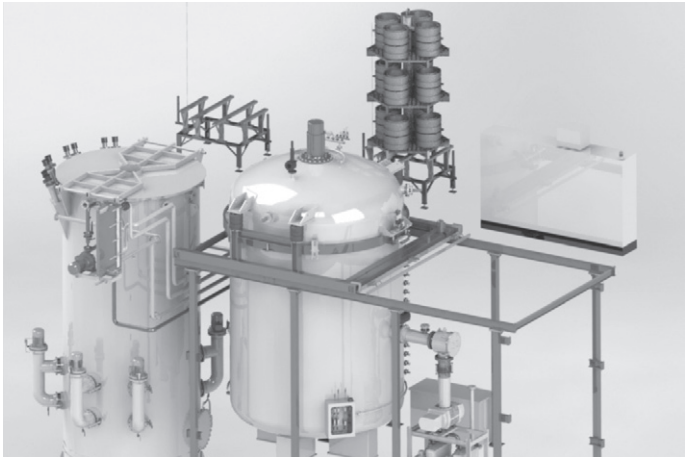
TECHNOLOGIES

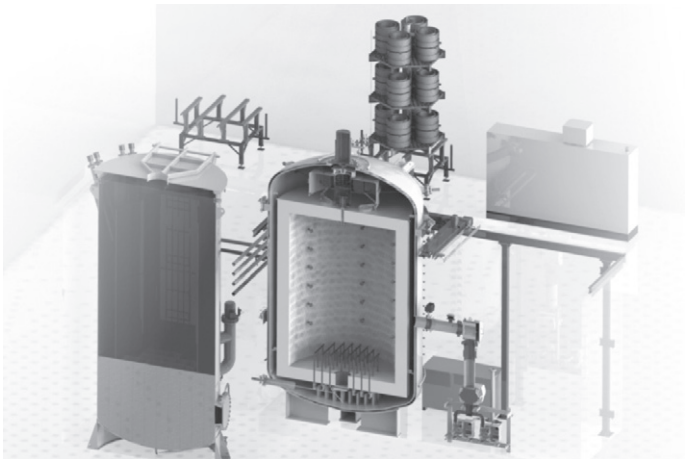
- Low Pressure Carburizing (LPC)

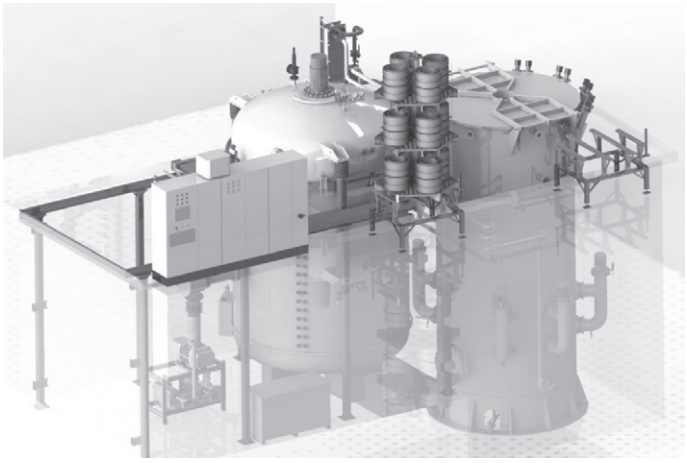
FEATURES

- Effective and efficient carburizing
- Time-saving
- Energy-saving
- Space-saving
- Increased operation safety

Pit-LPC – Alternative for atmosphere carburizing, which achieved the maximum of its possibilities. Pit-LPC means cost reduction, environment-friendly approach and an increase in production - all made possible thanks to performing the carburizing process under vacuum and in higher than typical temperatures. The state-of-the-art solution meets strict ecological standards. While increasing the work safety through elimination of natural gas. High homogenity of the process has a direct effect on the thickness of the carburized layer and, as a result, on the quality of the workpiece.







Pit-LPC IS

- Adapted to the client's needs; we adapt the furnace so that it can be easily installed in the old atmosphere furnace bay.
- A tool for companies thatwant to increase their productivity while respecting the highest environmental standards.
- Dedicated for: manufacturers carburizing large elements such as gears, bearing races, cutting tools and other elements requiring thick carburized layer.
- Addressed to clients who want to reduce their costs through elimination of unnecessary media.
- A tool for companies that want to increase their production capacity without purchasing additional equipment:
  - a single Pit-LPC furnace = 3 atmosphere furnaces,
  - or save space by replacing three machines with one.

ADVANTAGES

- The highest quality and uniformity of the process.
- Excellent quality of the surface.
- No surface oxidation (IGO).
- Reduction of the necessary media to the minimum = savings.
- Quick high-temperature process.
- Minimum consumption of process gases.
- Time savings as there is no need to prepare the process atmosphere.
- Quick process initiation that does not require purging nor atmosphere conditioning as in atmosphere furnaces.
- Safety: No flammable or explosive atmosphere.
- Low heat emission and no pollution (CO & CO_2).
- ECO friendly solution.

SEE WHAT OTHERS DO NOT SEE – WIN THE ADVANTAGE

- Lower your production and maintenance costs.
- Save time and increase productivity.
- Increase work safety through elimination of flammable and explosive atmosphere.
- Be environmentally friendly by shortening the process.

SECO/WARWICK
Invention Meets Reliability

SECO/WARWICK is the 1st Choice Supplier
of Solutions for Heat Treatment and Metallurgy.

We create innovative products that provide our customers with reliable, safe and environmentally friendly solutions for heat treatment and metallurgy and ensure the economic efficiency of their businesses. Expertise includes end-to-end solutions in 5 categories: vacuum heat treatment, atmosphere, and aluminum thermal processing, controlled atmosphere brazing of aluminum heat exchangers and vacuum metallurgy.

SECO/WARWICK Group, with 7 companies located on 3 continents, has customers in nearly 70 countries with more than 5000 deployed solutions. The company provides standard or customized state-of-the-art heat processing and metallurgy equipment and technologies to leading companies in the following industries: automotive, aerospace, electronics, tooling, medical, recycling, energy including nuclear, wind, oil, gas, solar and production of steel, titanium, and aluminum.

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